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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,742	03/05/2002	Hidekiyo Takaoka	M1071-1711	7012
7.	590 01/30/2004	EXAMINER		
	MEILMAN, ESQ.	IP, SIKYIN		
DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP 1177 AVENUE OF THE AMERICAS-41ST FLOOR NEW YORK, NY 10036-2714			ART UNIT	PAPER NUMBER
			1742	

DATE MAILED: 01/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Applica	ation No.	Applicant(s)				
b +	•							
Office Action Summary		10/087		TAKAOKA ET AL.				
	Office Action Summary	Examin		Art Unit				
		Sikyin		1742				
Period fo	The MAILING DATE of this commu or Reply	nication appears on t	tne cover sneet w	ith the correspondence addi	'ess			
THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD I MAILING DATE OF THIS COMMUN nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this come a period for reply specified above is less than thirty to period for reply is specified above, the maximum a time to reply within the set or extended period for repreply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	IICATION. Is of 37 CFR 1.136(a). In no imunication. Is of days, a reply within the statutory period will apply and by will by statute. cause the a	event, however, may a statutory minimum of thind will expire SIX (6) MON application to become A	reply be timely filed . ty (30) days will be considered timely. NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133).	ımunication.			
1)⊠	Responsive to communication(s) file	ed on <u>07 November</u>	- 2003 .	,				
2a)⊠	This action is FINAL .	2b)⊡ This action is	non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)	 ✓ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ✓ Claim(s) 1-6 is/are rejected. ☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement. 							
, —	ion Papers		· .					
10)	The specification is objected to by the drawing(s) filed on is/arc Applicant may not request that any objected the oath or declaration is objected	e: a) accepted or ection to the drawing(s ng the correction is req	s) be held in abeya juired if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFF				
Priority	under 35 U.S.C. §§ 119 and 120							
a) 13)□ / 13)□ / 14)□ /	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priorit 2. Certified copies of the priorit 3. Copies of the certified copies application from the Internat See the attached detailed Office act Acknowledgment is made of a claim since a specific reference was included The translation of the foreign later acknowledgment is made of a claim seference was included in the first segment of the foreign later acknowledgment is made of a claim seference was included in the first segment in the first segment is made of a claim seference was included in the first segment in the first segment is made of a claim seference was included in the first segment in the first	y documents have by documents have be sof the priority docuional Bureau (PCT Fion for a list of the confor domestic priority ed in the first senter anguage provisional for domestic priority	peen received. peen received in A peen received in	Application No In received in this National State of the received. It is a provisional station or in an Application Expense received. It is a provisional station or in an Application Expense of the received. It is a provisional station or in an Application Expense of the received. It is a provisional station or in an Application Expense of the received. It is a provisional stational st	application) Data Sheet.			
Attachme		·	 □	O				
2) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review rmation Disclosure Statement(s) (PTO-1449)			Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-				

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DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321© may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-6 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-4 of U.S. Patent No. 6660226. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claimed inventions are overlapped by the claims of cited patent.

Claim Rejections - 35 USC § 103

3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claims 1-6 are rejected under 35 U.S.C. § 103 as being unpatentable over JP 2000190090 (abstract) or USP 6080497 to Carey et al (abstract and col. 29, line 55 to col. 30, line 5).
- 6. The reference(s) disclose(s) the features including the claimed Sn based solder compositions and its application. When prior art compounds essentially "bracketing" the claimed compounds in structural similarity are all known, one of ordinary skill in the art would clearly be motivated to make those claimed compounds in searching for new products. Therefore, the subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the subject matter disclosed by the reference.

 Overlapping ranges have been held to be a prima facie case of obviousness. See In re Malagari, 499 F.2d 1297, 1303, 182 USPQ 549, 553 (CCPA 1974).

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Response to Arguments

- 7. Applicant's arguments filed November 7, 2003 have been fully considered but they are not persuasive.
- 8. Applicants' argument as set forth in instant remarks page 5, last paragraph is noted. But, the instant specification does not exclude Bi (see pages 8-9 of the instant specification). JP '090 does not require both Bi and In. Bi could be added independently. (see abstract and [0013]).
- 9. Applicants' argument as set forth in page 6 of the instant remarks with respect to Carey patent is noted. But, the Sn alloy composition disclosed by Carey in bridging col. 29-30 are clearly overlapped the claimed Sn composition. The listing of numerous solutions (here alloying elements) to a problem does not make any one solution less obvious. Ex parte Raychem Corp. 17 USPQ 2d 1417, 1424 (BPAI 1990) and Merck & Co. v. Biocraft Lab. Inc. 10 USPQ 2d 1843 (CAFC 1983). Moreover, one of ordinary skill artisan would have been led to select the claimed elements, motivated by a reasonable expectation of successfully achieving cited references' objectives. The disclosed genus would have rendered the species prima facie obvious. In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990); Merck & Co., Inc. v. Biocraft Laboratories, Inc., 874 F.2d 804, 10 USPQ2d 1843 (Fed. Cir 1989); and In re Susi, 440 F.2d 442, 169 USPQ 423 (CCPA 1971).

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Conclusion

10. USP 3827884 and USP 6231691 are withdrawn because applicants have deleted Cr from their claims.

- 11. CN 1205260 is withdrawn because applicants have reduced the Cu content.
- 12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The above rejection relies on the reference(s) for all the teachings expressed in the text(s) of the references and/or one of ordinary skill in the metallurgical art would have reasonably understood or implied from the text(s) of the reference(s). To emphasize certain aspect(s) of the prior art, only specific portion(s) of the text(s) have been pointed out. Each reference as a whole should be reviewed in responding to the rejection, since other sections of the same reference and/or various combination of the cited references may be relied on in future rejection(s) in view of amendment(s).

All recited limitations in the instant claims have been meet by the rejections as set forth above.

Applicant is reminded that when amendment and/or revision is required, applicant should therefore specifically point out the support for any amendments made to the disclosure. See 37 C.F.R. § 1.121.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Ip whose telephone number is (571) 272-1241. The examiner can normally be reached on Monday to Friday from 5:30 A.M. to 2:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy V. King, can be reached on (571)-272-1244.

The facsimile phone number for this Art Unit 1742 are (703)872-9306 (Official Paper only). When filing a FAX in Technology Center 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with the PTO that are not for entry into the file of the application. This will expedite processing of your papers.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-1700.

SIKYIN IP PRIMARY EXAMINER

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S. Ip January 23, 2004